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L4: Entry 1 of 3 File: DWPI Jun 24, 1998

DERWENT-ACC-NO: 1998-324450
DERWENT-WEEK: 200401

TITLE: Sealable oriented film for packaging applications - based on polymers of polycyclic olefin and optionally acyclic olefin, e.g. norbornene and ethylene

INVENTOR: BEER, E; HATKE, W

PRIORITY-DATA: 1997DE-1049878 (November 12, 1997), 1996DE-1052774 (December 19, 1996)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 849074 A2	June 24, 1998	G	012	B32B027/32
DE 19652774 A1	June 25, 1998		000	C08L045/00
CA 2225186 A	June 19, 1998		000	C08L045/00
JP 10237129 A	September 8, 1998		011	C08F032/08
TW 460487 A	October 21, 2001		000	C08F232/08

INT-CL (IPC): B29 C 55/02; B29 K 23:00; B29 L 7:00; B32 B 27/08; B32 B 27/32; B65 D 65/40; C08 F 4/642; C08 F 32/08; C08 F 232/08; C08 J 5/18; C08 L 23/08; C08 L 23:00; C08 L 45/00; C08 L 45/02; C08 L 65/00

ABSTRACTED-PUB-NO: EP 849074A
BASIC-ABSTRACT:

Single- or multilayer sealable film with a sealing temperature which is 5-70 deg. C above the glass transition temperature (Tg), containing cycloolefin (co)polymer(s) (COC) with (a) 0.1-100 (preferably 0.1-99.9) wt% polymerised units of cyclic olefin (s) of formula (I), (II), (II'), (III), (IV), (V) and/or (VI) and (b) 0-99.9 mol% units derived from acyclic olefin(s) of formula (VII), in which R1-R8 = H, 1-20C hydrocarbyl such as 1-8C alkyl, 6-18C aryl or 7-20C alkylenearyl, cyclic or acyclic 2-20C alkenyl, or these groups may form a saturated, unsaturated or aromatic ring; n = 0-5; R9-R12 = H or 1-20C linear, branched, saturated or unsaturated hydrocarbyl such as 1-8C alkyl or 6-18C aryl. Also claimed is a process for the production of mono- or bi-axially oriented film, comprising production of the COC by hetero- or homogeneous catalysis with organometallic compounds, followed by extrusion to film and stretching in one or two directions.

USE - As packaging material (claimed).

ADVANTAGE - Provides new packaging film with improved sealing properties, i.e.

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biaxially oriented film without a special sealing layer, which can be heat sealed without significant shrinkage if the sealing process is carried out quickly. This film also has relatively isotropic mechanical properties and other useful properties, especially a high tensile modulus in the machine direction.

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